Ontario Ministry of Northern Development and Mines

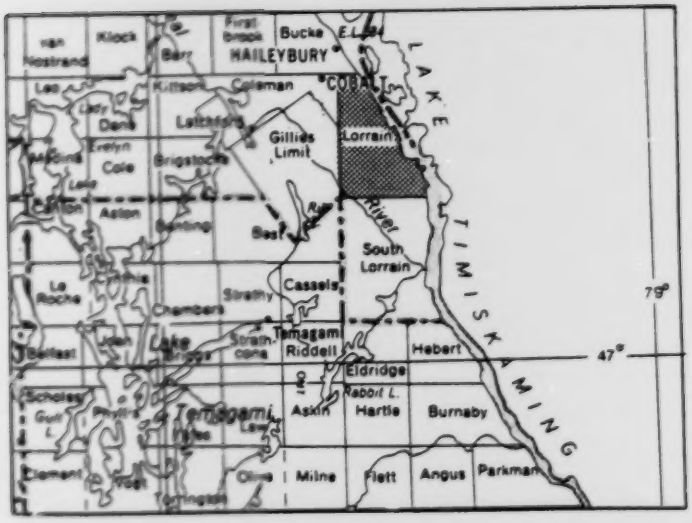
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 502

LORRAIN TOWNSHIP

Compiled by the Staff of
the Resident Geologist's Office
Cobalt



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO Mineral Development Agreement

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-04560/

NTS Number 31M/5 and part of 31M/6

Mining Claim Map Number M-536

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Lorrain Township, Geological Data Inventory Folio 502; compiled by the staff of the Resident Geologist's office, Cobalt.

Original Compilation by: Patricia Anderson, February 15, 1990

Date	Page Revised	Revised by

Date	Page Revised	Revised by

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CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

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ACCOMPANYING MAPS

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- Map 2 - Properties 43-79

Exploration Data Map - Map 3

Map Scale 1:31 680 or 1 inch to ½ mile

Exploration Data Map - Map 4

Map Scale 1:15 840 or 1 inch to ¼ mile

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	Yes	D.P.A.
3	ODM General Index; 9 Volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	D.P.A.
9	Newspaper Clippings File	Yes	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	Yes	D.P.A.
13	Source Mineral Deposit Records (O.G S.)	Yes	D.P.A.
14	Author - Subject Articles File	Yes	D.P.A.
15	Miscellaneous Papers: ODM & OGS	Yes	D.P.A.
16	ODM Geological Circulars: OGS Study Series	No	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	Yes	D.P.A.
18	ODM – OGS Open File Reports	Yes	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	No	D.P.A.
21	OGS Mineral Potential Maps	Yes	D.P.A.
22	Theses on File, Cobalt	Yes	D.P.A.
23	Air Photos on File, Toronto	Yes	D.P.A.
24	Air Photos on File, Cobalt	Yes	D.P.A.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
▲ arg . . . . . Argentite
△ As . . . . . .Arsenic
▲ asp . . . . . .Arsenopyrite
△ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . .Beryl
▲ Bi. . . . . .Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . Cadmium
△ calc. . . . . Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
▲ cp. . . . . .Chalcopyrite
△ ch. . . . . .Chert
△ clay . . . . . .Clay
▲ Co . . . . . Cobalt
▲ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
▲ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (flurospar)
△ fu. . . . . .Fuchsite
▲ gn. . . . . .Galena
△ gt. . . . . .Garnet
△ goe . . . . . .Goethite
▲ Au . . . . . Gold
▲ gf . . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . .Gypsum
▲ hem . . . . . Hematite
△ il . . . . . .Ilmenite
△ Fe . . . . . .Iron
△ IF. . . . . Iron Formation
▲ jas . . . . . Jasper
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . Kyanite
▲ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . .Magnesite
▲ mag . . . . . .Magnetite
▲ mc . . . . . .Malachite
△ Mn . . . . . Manganese
△ mb . . . . . .Marble
▲ mar. . . . . Marcasite
△ ma . . . . . .Marl
▲ mi . . . . . Mica
△ ml . . . . . .Millerite
△ mo . . . . . .Molybdenite
△ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
▲ nc. . . . . .Niccolite
▲ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
△ Pd . . . . . .Palladium
△ peat . . . . . .Peat
△ pent . . . . . .Pentlandite
△ Pt. . . . . .Platinum
▲ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
▲ po . . . . . .Pyrrhotite
△ q . . . . . Quartz
△ qcv . . . . . Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
▲ serp . . . . . Serpentine
△ sh. . . . . Shale
▲ sid . . . . . Siderite
△ si . . . . . Silica
▲ Ag . . . . . .Silver
△ sl . . . . . Slate
▲ sm . . . . . .Smaltite
△ sod . . . . . Sodalite
▲ spec . . . . . Specularite
▲ sp. . . . . .Sphalerite
△ spd . . . . . .Spodumene
△ staur . . . . . .Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
▲ talc. . . . . .Talc
△ Te . . . . . .Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
△ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
△ tour . . . . . .Tourmaline
△ trap . . . . . .Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
△ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
▲ Zn . . . . . .Zinc
△ zr. . . . . Zircon
▲ars. . . . . .Arsenides
▲sk. . . . . .Skutterudite
▲s. . . . . .Sulphides

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or listed in Drillhole Summary.

LORRAIN TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A.	Armstrong, S.W.	Cu-major	T-0066	MRC 10, p.328, 329, 337	OGS,1962, PR 1960-1, p. 37 OGS, 1964, Map. 2050 OGS,1960, Map P.61
B.	Caswell (Lepaladan, Taylor Pipe)	Co, Ag-major, Cu-minor	T-0071	MRC 10, p. 328, 329, 334	OGS,1976, MP 51, p. 12-13 OGS,1976, Map P.1559 Lorrain Twp. AF, Clarke, R.M. Lang-Caswell Cobalt Mines Ltd. Siscoe Metals Ltd.
C.	Chukuni	Cu-major Ag-minor	T-0076		OGS,1976, MP 51, p.12 OGS,1976, P. 1559 Lorrain Twp. AF, Chukuni Gold Mines Ltd. Cominga
D.	Crysler (Chrysler Niles)	Ag-major Cu-minor	T-0062	MRC 10, p.328, 329, 331	OGS,1962,PR 1960-1, P.51 OGS,1964, Map 1052 Lorrain Twp. AF, Brown, W.E. Howes Empire Cobalt Mines Ltd. Gamble Prospecting Syndicate, The Burton, Douglas;McAllister Robert Nama Creek Mines Ltd.

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MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
E.	Devil's Rock (Nasco)	Ag, Co-major Cu-minor	T-0068	MRC 10, p.338	OGS, 1962, PR 1960-1, p.34-35 OGS, 1964, Map 2050 Lorrain Twp. AF, de Camps, E.B.E. Nasco Cobalt Silver Mines Ltd.
F.	Empire	Co-major Cu-minor	T-0063	MRC 10, p.328, 329, 332	OGS, 1962, PR 1960-1, p.50-51 OGS, 1964, Map 2052 Lorrain Twp. AF, Brown, W.E., Howes Burton, Douglas; McAllister, Robert Trend Explorations and Development Co. Ltd.
G.	Erie (Brady Cross Lake)	Ag-major Co, Cu, Ni -minor	T-0061	MRC 10, p.328, 329, 333	OGS, 1962, PR 1960-1, p.44-50 OGS, 1964, Map 2052 Lorrain Twp. AF, Erie Cobalt Silver Mining Co. Ltd. Brady Cross Lake Silver Mines Ltd.

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MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
H.	Big Fissure	Ag, Co-major Cu-minor	T-0064	MRC 10, P.328,329, 330	OGS,1962, PR 1960-1, p.40-41 OGS,1964, Map 2050 Lorrain Twp. AF, Clenor Mining Co. Ltd. Frederick Yellowknife Mines Ltd. Burton, Douglas; McAllister Robert March Minerals Ltd. McCullough, E.W.; Brown, Ted. Teck Explorations Ltd.
I.	German (German-American Mining Co. Ltd.)	Co-major Cu-minor	T-0069	MRC 10, p.328, 329, 338	OGS,1962, PR 1960-1, p.32-33 OGS,1964, Map 2050 OGS,1960, Map P.61
J.	Giroux, Fred	Ag, Co-major Ni-minor	T-0075		OGS,1976, MP 51, p.12 OGS,1976, Map P.1559
K.	LaTour (LaTour Lake Mines Ltd.)	Ag, Co-major	T-0072	MRC 10, p.328, 329, 338	OGS,1976, Map P. 1559 -past producer, 1940 Lorrain Twp. AF, Clarke, R.M.

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MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
L.	Negus, R.D. (Goodwin Lake, Con. VII, Lot 4, S½, SW¼)	Ag, Co-major Cu, Ni-minor	T-0073	MRC 10, p.328, 329, 336	OGS,1976, MP 51, p. 13 OGS,1960, PR 1960-1 p. 53-55 OGS,1976, Map P.1559 Lorrain Twp. AF, deCamps, E.B.E. Derry W.C. Bigelow, George
M.	Manasseh	Co-major Ag-minor	T-0078		OGS, 1976, MP 51, p. 13 OGS, 1976, Map P.1559 Lorrain Twp. AF, Manasseh Silver-Cobalt Mines Ltd. Silver Finders Mining Syndicate Ltd.
N.	Wabi (Wabi Cobalt Silver Mining Co. Ltd.)	Co-major Cu-minor	T-0065	MRC 10, p.328, 329 339	OGS,1962, PR 1960-1, p.43 OGS,1964, Map 2050 Lorrain Twp. AF, O'Neill, John Wabi Cobalt Silver Mining Co. Ltd.
O.	Wolst-Rees (East Cobalt)	Ag-major Cu, Bi, Pb-minor	T-0070	MRC 10, p.328, 329, 335	OGS,1962, PR 1960-1, p.30-31 OGS,1964, Map 2050 Lorrain Twp. AF, Wolst-Rees Cobalt Silver Mining Co. Ltd.

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MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
P.	Smith-Cobalt (Rockzone)	Co-major Cu, Zn-minor	T-0067	MRC 10, p.328, 329, 338, 339	OGS,1962, PR 1960-1, p. 35-36 OGS,1964, Map 2050
Q.	Thomson, R. (Paul's Shaft)	Ag-major Cu-minor	T-0074		OGS,1976, Map 51, p.14 OGS,1976, Map P.1559 Lorrain Twp. AF, Price, J.H. Thomson, R. Whalen, W. Paul, Walter
R.	Little Fissure	Cu		MRC 10, p.338	OGS,1962, PR 1960-1, p.41 OGS,1960, Map P.61 OGS,1964, Map 2050 Lorrain Twp. AF, Clenor Mining Co. Ltd. Frederick Yellowknife Mines Ltd. Burton, Douglas; McAllister, Robert March Minerals Ltd. McCullogh, E.W.; Brown, Ted Teck Explorations Ltd.

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Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
S.	Con. XII, Lot 1, S½, NE¼, Lorrain 10	Cu		MRC 10, p.338	OGS,1962, PR 1960-1, p.29 OGS,1960, Map P.61 OGS,1964, Map 2050 Lorrain Twp. AF, Brown, W; Brown D. Silverside Mines Ltd. Silverside Resources Ltd.
T.	Con. XI, Lot 4, S½, NW¼, Frederick Yellowknife Mines Ltd.	Co, Cu		MRC 10, p.338	OGS,1962, PR 1960-1, p.42 OGS,1960, Map P.61 OGS,1964, Map 2050 Lorrain Twp. AF, O'Neill, John Frederick Yellowknife Mines Ltd. McCullogh, E.W.; Brown, Ted
U.	Con. XI, Lot 1, S½, NW¼, Lorrain 19	Cu		MRC 10, p.337	OGS,1962, PR 1960-1, p.36 OGS,1960, Map P.61 OGS,1964, Map 2050 Lorrain Twp. AF, Burton, Douglas; McAllister, Robert

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MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
V.	Temiskaming Project Syndicate (East Cobalt)	Cu, Ni Zn, Pb		MRC 10, p.337	OGS,1962, PR 1960-1,p.39 OGS,1960, Map P.61 OGS,1964, Map 2050 Lorrain Twp. AF, Frederick Yellowknife Mines Ltd. Wilcox, A.E.
W.	Lang, L. Con. XI, Lot 2, S½, SE¼	Cu		MRC 10, p. 337	OGS,1962, PR 1960-1, p.39 OGS,1960, Map P.61 OGS,1964, Map 2050 Lorrain Twp. AF, Brown, W.E.; Howes
X.	Con. XII, Lot 1, N½, SE¼, Lorrain 11	Cu		MRC 10, p.337	OGS,1962, PR 1960-1, p.29 OGS,1960, Map P.61 OGS,1964, Map 2050 Lorrain Twp. AF, Silverside Mines Ltd. Silverside Resources Ltd. Silver Square Mining Co. Ltd.
Y.	Con. VII, Lot 1, N½, SW¼, Lorrain 12	Cu		MRC 10, p.336	OGS,1962, PR 1960-1. p.53 OGS,1960, Map P.65 OGS,1964, Map 2050

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MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Z.	Con. VII, Lot 4, S½, SE¼, Lorrain 34	Co, Cu, Ni		MRC 10, p.336	OGS,1962, PR 1960-1, p.55 OGS,1960, Map P.65 OGS,1964, Map 2050 Lorrain Twp. AF, DeCamps, E.B.E. Derry, W.C.; Bigelow, George
AA.	Con. X, Lot 1, N½, SE¼, Lorrain 10	Co, Cu		MRC 10, p.337	OGS,1962, PR-1960-1, p.50 OGS,1960, Map P.62
BB.	Con. XI, Lot 1, S½, SW¼	Cu, Zn		MRC 10, p.337	OGS,1962, PR 1960-1, p.37 OGS,1960, Map P.61 Lorrain Twp. AF, Brady Cross Lake Silver Mines Ltd.
CC.	Agaunico, Lorrain 6, Con. XII, Lot 3, N½, SW¼, Lorrain 6	Ag, Co		MRC 10, p.336	OGS,1962, PR 1960-1. p.33 OGS,1964, Map 2050 Lorrain Twp, AF. Big Agaunico Mines Ltd.

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MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
DD.	Con. XII, Lot 2, S½, SE¼, Broshier Porcupine Mines Ltd Lorrain 15	Cu		MRC 10, p.336	OGS,1962, PR 1960-1, p.31 OGS,1964, Map 2050 Lorrain Twp. AF, Broshier Porcupine Mines Ltd. McGregor, J. Gaffney Silverside Mines Ltd. Silverside Resources Ltd. Temiskaming Project Syndicate
EE.	Brown, Con. XI, Lot 3, N½, SE¼	Cu		MRC 10, p. 336	OGS,1962, PR 1960-1, p.40 OGS,1964, Map 2050 Lorrain Twp, AF, Frederick Yellowknife Mines Ltd.
FF.	Brown-Howes, Con. XI, Lot 2, S½, SW¼	Co, Cu		MRC 10, p. 336	OGS,1962, PR 1960-1, p.38-39 OGS,1960, Map P.65 Lorrain Twp. AF, Brown, W.E.; Howes Burton, Douglas; McAllister, Robert Trend Explorations and Development Co. Ltd.

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
GG.	Con. VI, Lot 4, N½, SE¼, Lorrain 37	Ag, Co, Cu, Ni		MRC 10, p. 336	OGS,1962, PR 1960-1, p.55 OGS,1960, Map P.65 Lorrain Twp. AF, DeCamps, E.B.E. Derry, W.C.; Bigelow, George
HH.	Con. VI, Lot 5, N½, NW¼, Lorrain 36	Cu		MRC 10, p. 336	OGS,1962, PR 1960-1, p.55 OGS,1960, Map P.65 Lorrain Twp. AF, DeCamps, E.B.E. Derry, W.C.; Bigelow, George
II.	Silverside	Ag-major			Lorrain Twp. AF, Silverside Resources Ltd. 1985-construction of ramp to open up new mine,-ramp begins in Bucke Twp. to intersect mineralization in Coleman Twp. Lorrain Twp. AF, Silverside Mines Ltd. Silverside Resources Ltd. Silver Square Mining Co. Ltd. Brown, W.; Brown, D.

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Aggressive Mining Ltd., J-B Property, Falconbridge Nickel Mines Ltd. Option Lorrain & South Lorrain Townships AFRO# 63-3116, # 2-1092, # 2-1240, # 2-1181	73	72	20's	72 73	72 73							73							
2	Dixon, G.			20's																
3	Currier-Watson Lorrain & South Lorrain Townships							50												
4	Ryan			?				51 52												
5	Vanadium Exploration Syndicate			50	49- 50	49 50	?	50												

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TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
6	Alcourt Mines Ltd. AFRO# 63-1262	63			64			64				63					63			
7	International Cobalt & Silver Mining Co.							48												
8	Cloutier, Alfred				53															
9	Armstrong, James E.				72 80															
10	Berry, L.R.				63															
11	Big Agaunico Mines Ltd.				52 55															
12	Bigelow, G; Derry, W.C.							48 63												

GDIF FORM NO. 2

LORRAIN TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
13	Bischoff, H.R.				54															
14	Broshier Porcupine Mines Ltd.				51			51												
15	Brown, W.E.;Howes	51			51 52 55			48 53												
16	McGregor, J.							59												
17	O'Neill, John																			
18	Brown, W.; Brown, D.							51												
19	Wolst-Rees Cobalt Silver Mining Co. Ltd.					09		49 50												
20	Chukuni Gold Mines Ltd.				70	70	?													

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
21	Ciglen Investments Ltd. Pine Lake Group, Lorrain & Gillies Limit Twps.				69 66			48 50												
22	Clarke, R.M. AFRO# 2-4460, 2-5100, 2-4912, 2-4232	80	81	81		81		80 81					80 82							
23	Lang-Caswell Cobalt Mines Ltd.			08- 12?			10													
24	Siscoe Metals Ltd. Lepaladan Corp. Ltd. (1976)				51															
25	Giroux, F.A. (See Drillhole #5)			?	49		16	48 49 50 57												

LORRAIN TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
26	Clenor Mining Co. Ltd. "Thompson Claim"	51		51	51	51		51 52												
27	Cobalt Consolidated Mining Corp. Ltd. "Martineau Bay Group" AFRO# 63-600												55							
28	Cominga (La Compagnie Miniere de L'Ungava Limitee)	69						70												
29	De Camps, E.B.E. -Goodwin Lake Group				55 59 60 61 62	60		55 48			55?									
	Crown Reserve Mining Co.			10			10													
	Halstead, M.			50																
	Negus, R.D. (1972)																			

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
30	Blueman, Wm.; Mattson, Victor Claims Coniagas Mines Ltd. option (in De Camps AF) Crown Reserve Mine option Page, W.B.			pre 15			pre 15	15 52 52												
31	Derry, W.C. & Bigelow, George							48 49												
32	De Camps, E.B.E. -sold to Silanco, 1951 -John O'Neill (property 17) -F.W. Thompson Claim -Ralph I. Benner et al Kenty Group							51 56 48 23 52												
33	Durex Mines Ltd. AFRO# 63A-1	48																		

GDIF FORM NO. 2

LORRAIN TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
34a	Empire Cobalt Mines Ltd. Conc. VIII, Lot 2							61 49 51												
34b	Conc. X, Lot 2 Chrysler-Niles Mining Co. Ltd.			09			09	09												
	Hecla Silver Mines Ltd. (1910)																			
	Empire Cobalt Mines Ltd.							36												
	GQR Resources (1984) (See drillhole 106)				85															
35	Erie Cobalt Silver Mining Co. Ltd.						06-09	09												
36	Brady Cross Lake Silver Mines Ltd. Lorrain & Coleman Twps.	56						67 62 60 53 50 61												

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
36	Brady Cross Lake Silver Mines Ltd. (Cont.) Brady, M.J. -Claim 56, Coleman Twp. Preston East Dome Mines - lease - 4 Claims			04	50			48 51 46 47												
37	Frederick Yellowknife Mines Ltd.	46			48			48												
38	Gaffney	52																		
39	Gamble Prospecting Syndicate, The.						61	61												
40	Gorman																			

GDIF FORM NO. 2

LORRAIN TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
41	Heikilla, T.R.							55						55						
42	James-Campbell							51 49												
	Burton, Douglas; McAllister, Robert				63			63 48												
43a	McAllister, Robert				67															
43b	McAllister with Douglas Burton				63			63 48												
	McAllister, R.			74 76 77 82	74 77	74														
	leased to Teck Explorations Ltd.			79 82	79 82	79														
	See Property 58																			

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
44	Malouf, Stanley M. AFRO# 2-3733 Lorrain, Bucke, Coleman Twps.												80							
45	Manasseh Silver-Cobalt Mines Ltd. formerly: (Pine Lake-Lorrain Mine)			25-27			25-28	54 60 52 49 51 61												
46	March Minerals Ltd.				64															
47	McCullough, Edward William & Brown, Ted			77 76	74															
48	Miller, H.G.				52															

GDIF FORM NO. 2

LORRAIN TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
49	Nama Creek Mines Ltd. leased from John Gaudaur AFRO# 63A-421	63			63	63	63	63												
50	Nasco Cobalt Silver Mines Ltd. Devil's Rock Silver Mining Co. Lake Temiskaming Silver Mining Co.	52			52 55 65	55	07?	55												
51	Price, J.H. "Anderson Lake Group" (and P. Campbell)			51	63			49												
52	Quinlan, G.J.				66			66												

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	SEISMIC		
53	Silver Finders Mining Syndicate Ltd.							69												
54	Silver Heart Mines Ltd.							52												
55	Hellens-Eplett Mining Inc. (Silverside Resources Inc.) Lorrain & Bucke Twps. -mine ramp in Bucke Twp. AFRO# 63-4171, 63-3986, 63-4479, 63-4351				81 82 83 84 85	81 82 83 84 85	85 86 87 88	71 81 82 84 84				81	81					85		
56	Silver Square Mining Co. Ltd. (1909) Montreal River Silver Syndicate (1947)						?	48												

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
57	Smith G.A. & W.H. Smith-Cobalt Mines Ltd. Lorrain & Coleman Twp. AFRO# 63A-82	49		?	51															
58	Teck Explorations Ltd., McAllister Option - See Property 43 AFRO# 63-3665	79		79	79							79	79							
59	Temiskaming Project Syndicate	60			60	60		60				60								
60	Thomson, R., Anderson Lake Claims AFRO# 2-912 McKinley-Darragh-Savage Mines-sunk Paul's Shaft	72		71-73 20's	70	23		20's												
61	Trend Explorations & Development Co. Ltd.				64			63				63								

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
62	Voyager Explorations Ltd.				61															
63	Whalen, W.			50 51		52		51 52												
64	Wabi Cobalt Silver Mining Co. Ltd.							48												
65	Wilcox, A.E.				53 54															
66	Paul, Walter							51 52												
67	German-American Mining Co. (reference, Thomson, R., PR 1960-1, p. 32-33)			pre 10?			pre 10?													

TYPE OF WORK		Numbers below represent the year in which the work was done;e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
68	Silmil Explorations Inc. Coleman & Lorrain Twps.							76												
69	Consolidated Professor Mines Ltd.							74 73 73 61 62												
70	Hugh-Pam Porcupine Mines; H.G. Young Mines Gillies Limit & Lorrain Twp., all work in Gilles Limited																			
71	GQR Resources			85	85			85												
72	Oscar Giroux			87																

GDH FORM NO. 7

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																			
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																					
73	Proteus Resources Inc. (formerly Lapaladan), Ruby Valley Property	86			85 86	85 86															
74	Osisko Lake Resources	85	85		85	85							85								
75	Gossan Resources Ltd.				84																
76	Phaeton Exploration Ltd., Smith-Cobalt Property, Coleman & Lorrain Twps. All drilling indicated to be close to Smith-Cobalt Shaft in Coleman Tp. Smith, W.H. & Associates Mining Corporation of Canada Ltd., 1926	85		05?	84-85 26		26															

GDIF FORM NO. 2

LORRAIN TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
76	Phaeton Exploration Ltd. cont. Smith-Cobalt Mines, 1928 Dolmac Mines Ltd., 1959				59		34 35													
77	Silver Lake Resources Inc./Silverside Resources Inc.				85 86	85 86							85							
78	Bishop, Brian A.											88	88							
79	Teledyne Canada Ltd., Gillies Limit, Bucke & Lorrain Twp.	79																		

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
1	Aggressive Mining Ltd.	JB73-5	1973	000	-45	7	330	py, cp	Co, Ag
		JB73-6	1973	180	-45	5	207	py	
		JB73-7	1973	050	-45	5	251	py, cp	
		JB73-8	1973	185	-50	7	454	py, mc, cp, serp	Co, Ag
2	Aggressive Mining Ltd.	JB73-4	1973	328	-50	5	585	cp, py	Co, Ag
3	Aggressive Mining Ltd.	JB72-1	1972	000	-60	5	685	py, cp, spec	Co, Ag
4	Aggressive Mining Ltd.	JB72-2	1972	180	-50	5	432	py, cp	Co, Ag
4		JB72-3	1972	180	-45	5	242	py	Co, Ag
5	Vanadium Exploration Syndicate	1	1949	006	-40	12	69.5	py, cp, po Ag, Co	Au, Ag, Ni
		2	1950	175	-40	10	73.5	py	Au, Ag
		3	1950	212	-40	12	126.5	Co, py, cp	Au, Ag, Co
6	Vanadium Exploration Syndicate	V-1	1950	116	-45	8	162	py, spec, cp, mag	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
7	Alcourt Mines Ltd.	1	1964	270	-45	10	500		
8	Cloutier, Alfred	1	1953	090	-45	0	240	py, cp	
9	Armstrong, James E.	A7	1980	090	-60	18	202	hem, cp	
		A2	1972	095	-45	15	170	cp, hem	
10	Berry, L.R.	P-1	1963	090	-60	0	101		
11	Berry, L.R.	P-2	1963	090	-60	0	101.5		
12	Big Agaunico Mines Ltd.	1	1952	280	-40	0	124	py	
13	Big Agaunico Mines Ltd.	16	1955	270	-45	3	200		
14	Bischoff, H.R.	1	1954	111	-45		140		
15	Bischoff, H.R.	2	1954	148	-50		225		
16	Broshier Porcupine Mines Ltd.	1	1951	231	-50	3	768.5	Cu	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
17	Broshier Porcupine Mines Ltd.	2	1951	290	-35	0	83	abandoned	
		3	1951	250	-35	0	863		
18	Brown-Howes	6	1955	180	-45	3	409	py	
		3	1951	180	-50	8	112	hem, cp	
19	Brown-Howes	1	1951		-40	0	160	py	
20	Brown-Howes	2	1951	020	-50	8	155		
21	Brown-Howes	4	1952	335	-35	2.5	321	py, cp, hem	
22	Brown-Howes	5	1952	138		20		py, mag, cp	
23	Chukuni Gold Mines Ltd.	C-1	1970	139	-45	11	345	py, mag, cp	Au, Ag
		C-2	1970	189	-45	8	228.8	py, mag	Ag
		C-3	1970	226	-45	8.8	191.9	mi, py, cp	Ag
24	Ciglen Investments Ltd.	C-69-11	1969	350	-45	0	158	cp, py	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
24 cont.	Ciglen Investments Ltd.	C-69-10	1969	270	-30	0	152		
		C-69-9	1969	270	-45	0	151		
		C-69-8	1969	175	-30	0	150	hem	
25	Ciglen Investments Ltd.	C-69-7	1969	090	-45	0	145		
		C-69-6	1969	270	-35	0	135		
		C-69-5	1969	180	-35	0	150		
26	Ciglen Investments Ltd.	C-10	1966	185	-58	0	102		
27	Ciglen Investments Ltd.	C-1	1966	200	-40	0	101	hem, cp	Ag
		C-2	1966	020	-50	0	102	hem, cp	Ag
28	Siscoe Metals Ltd.	SC-1	1951	122.5	-60	49	389		
		SC-2	1951	124	-37	8	268.5	cp, py	
29	Siscoe Metals Ltd.	SC-3	1951	304	-45	108	108	abandoned	
		SC-3A	1951	304	-45	57	370	py	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
30	Siscoe Metals Ltd.	SC-4	1951	304	-45	16	303	hem, py	
31	Siscoe Metals Ltd.	SC-5	1951	109	-45	10	325	py	
32	Siscoe Metals Ltd.	SC-6	1951	123	-38	12	399	po	
33	Clenor Mining Co. Ltd.	1	1951	210	-40	2.8	251.4	cp, py	Ag
34	de Camps, E.B.	1	1955	140	-40	0	152		
		2	1955	180	-40	0	47		
		9	1955	095	-41	7	156		
		10	1955	120	-38	6	100		
		11	1955	175	-38	0	147		
		12	1955	180	-45	11.5	149.5		
		13	1955	180	-35	7	163.5		
35	de Camps, E.B.	3	1955	120	-45	1.5	262		
		4							
		5	1955						

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
35 cont.	de Camps, E.B.	6							
		7	1955	298	-45	5	103	py	
		8	1955	128		7	254		
36	de Camps, E.B.	1	1959	180	-45	0	80	py, Co, Ag	
		2	1959-1960	225	-45	0	121		
		3	1960	225	-15	0	150	hem	Ag
		4	1960	225	-35	0	103	hem	
		5	1960	270	-35	0	105		
		6	1960	225	-32	0	114		
		9	1961	195	-34	0	120		
		10	1961	317	-38	0	120		
37	de Camps, E.B.	7	1961	180	-21	-	122	hem	
		8	1961	000	-40	-	118	hem	
38	de Camps, E.B.	11	1962	180	-74	0	146		

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
38 cont.	de Camps, E.B.	13	1962	090	-87	0	143	hem	
		14	1962	-	-90	0	110	hem, Co	
39	Preston East Dome Mines	7	1950	030					
		8	1950	030					
		9	1950	310					
40	Preston East Dome Mines	10	1950	295					
		15	1950	255					
		16	1950	255					
		18	1950	250					
41	Brady Cross Lake Silver Mines	1	?	012	-60		1000		
42	Brady Cross Lake Silver Mines	2	?	122	-70		300		
43	Brady Cross Lake Silver Mines	3	?	200	-45		1000		

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
44	Preston East Dome Mines	3	1950	165					
		4	1950	190					
		5	1950	260					
45	Preston East Dome Mines	13	1950	105					
46	Preston East Dome Mines	14	1950	305					
47	Preston East Dome Mines	17	1950	300					
48	Frederick Yellowknife Mines Ltd.	1	1948	230	-60	0	125	hem, cp	
		2	1948	198	-50	0	127		
49	Frederick Yellowknife Mines Ltd.	3	1948	105	-55	0	127	cp	
		4	1948	105	-55	0	109.5	cp	
50	McAllister, R., Burton, D.	1	1963	265	-45	0	202	py, cp	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
51	March Minerals Ltd.	1	1964	242	-45	10	150		
		2	1964	242	-45	10	153		
		3	1964	242	-45	12	150		
52	March Minerals Ltd.	4	1964	027	-45	12	151		
		5	1964	027	-45	14	254		
		6	1964	027	-45	5	153		
53	McAllister, R.	1	1967		-45	0	287		
54	McAllister, R.	45-74-1	1974	270	-45	28			
		77-1	1977	270	-40	2	103		
55	Teck Explorations Ltd. McAllister option	LT-1	1979	000	-45	16	201		Ag, Cu
		LT-2	1979	000	-45	48	199		Ag, Cu
		LT-3	1979	000	-45	14	200		Ag, Cu
		LT-4	1980	330	-45	16	98	mag	
		LT-5	1980	330	-45	20	89		

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
55 cont.	Teck Explorations Ltd. McAllister option	LT-6	1980	330	-42	28	86	py	
		LT-7	1980	345	-44	14	82		
56	McCullough & Brown	1	1974	042	-50	0	102		
57	Miller, H.G.	1	1952	350	-45	8	276		
		2	1952	170	-45	3	251		
58	Nama Creek Mines Ltd.	1	1963	314	00	0	101	cp, py	
59	Nasco Cobalt Silver Mines Ltd.	65-1	1965	108	-55	40	503		Ag
		1-S	1952	270	-65	47	417	cp, py	
		2-S	1952	270	-52	17	410	cp, py	
		3-S	1952	270	-35	49	522	py, cp	
		5-S	1952	099	-55	40	520	py	
60	Nasco Cobalt Silver Mines Ltd.	65-2	1965	045	-50	18	184		Ag
		65-3	1965	200	-50	11	787	py, cp, hem	Ag

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
61	Nasco Cobalt Silver Mines Ltd.	65-4	1965	215	-45	73	663	hem, cp	Ag
		65-5	1965	142	-45	112	653	cp, py	Ag
		6-5	1952	270	-45	77	661	py	
62	Nasco Cobalt Silver Mines Ltd.	1	1955	320	-60	32	1126	cp	Ag
63	Nasco Cobalt Silver Mines Ltd.	7-S	1952	090	-50	174	750	po, gf, py, cp, spec	
		8-S	1952	270	-50	135	648.5	py, cp, gn	
64	Nasco Cobalt Silver Mines Ltd.	10-S	1952	135	-50				
65	Nasco Cobalt Silver Mines Ltd.	11-S	1952	000					
66	Price, J.H.	1	1963	175	-35	0	104	py, hem	
67	Price, J.H.	2	1963	185	-30	0	108	py	

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LORRAIN TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
68	Quinlan, G.J.	1	1966	180	-45	15	199	py	
		2	1966	-	-90	15	90		
		3	1966	-	-90	10	80		
		4	1966	180	-45	0	103		
		5	1966		-45	0	33		
69	Silverside Resources Inc.	(81-1)#3	1981	270	-48	30	411	cp	
70	Silverside Resources Inc.	81-2	1981	090	-45	22	499	hem, sp, cp, py	
71	Silverside Resources Inc.	(81-3)#1	1981	270	-50	9	519	po, cp, py	Ag
72	Silverside Resources Inc.	81-4	1981	270	-51	34	439		
73	Silverside Resources Inc.	81-5	1981	090	-46	46	476		
		81-6	1981	270	-44	50	473	py	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
74	Silverside Resources Inc.	81-7	1981	270	-56	40	625	cp	Ag
		81-8	1981	270	-56	38	490		
		81-9	1981	355	-44	12	548		Ag
75	Silverside Resources Inc.	82-1	1982	090	-43	126	437	py, cp	Ag, Cu
		82-2	1982	090	-62	112	461	py	
		82-26	1982	105	-45	108	476	cp, py, mag	
76	Silverside Resources Inc.	82-3	1982	270	-45	88	380	py, cp, gn	Ag
		82-4	1982	090	-45	98	396		
		82-5	1982	272	-62	76	366	gn, sp, py, po, cp	
		82-6	1982	090	-43	96	407	cp, Co, py	Ag, Co
		82-7	1982	090	-43	106	459	talc, hem, sp, py	Ag
77	Silverside Resources Inc.	82-28	1982	345	-45	68	505	cp, hem	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
78	Silverside Resources Inc.	82-29	1982	310	-45	134	639		
79	Silverside Resources Inc.	82-15	1982	270	-50	82	545	cp,py,gn,Ag sp,Co	Ag
		82-16	1982	045	-44	84	585	hem,cp,py,sp gn,Co	Ag
		82-17	1982	070	-44	126	605	py,cp,gn,sp, Co	
		82-17-B (wedged @ 400')	1982	070	-35	-	595	cp,py,sp,gn, Co,Ag	
		82-18	1982	270	-44	86	715	py,cp,Ag	
		82-19	1982	090	-53	92	521	cp,py,gn,sp, Co	Ag,Zn,Pb, Cu,Co
		82-20	1982	090	-44	92	575	Co,cp,sp,py, gn	
		82-21	1982	128	-45	116	446	cp,Co,py	Ag,Co
		82-22	1982	070	-45	100	642	mag,py,cp,Co Ag	Ag,Cu,Co
		82-23	1982	074	-52	98	706	py,gn,po,cp Ag,nc,sp,gn	Ag,Cu,Co

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
79 cont.	Silverside Resources Inc.	82-24	1982	070	-50	112	436	cp,py,Ag	Ag
		82-30	1982	090	-50	122	646	cp,py	
80	Silverside Resources Inc.	83-1	1983	126.5	-50	96	480	py,hem,gn,sm	Ag
		83-2	1983	126.5	-50	80	520	py,cp,po,sp, gn,cob,sm	Ag
		83-3	1983	126.5	-50	85	540	Ag,py,sp,hem, po,cob,sid	Ag
		83-4	1983	126.5	-50	103	441	Ag,py,hem,po sp,cob,gn	Ag
		83-5	1983	126.5	-50	102	456	hem,py,cp	Ag
		83-6	1983	126.5	-50	74	446	Ag,py,cp,hem, cob,gn	Ag
		83-7	1983	126.5	-45	96	486	Ag,hem,py,cob cp,gn	Ag
		83-8	1983	126.5	-50	90	476	Ag,hem,py,asp cob,sm	Ag
		83-9	1983	126.5	-50	90	486	Ag,py,hem,cob gn,sp	Ag

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
80 cont.	Silverside Resources Inc.	83-10	1983	126.5	-50	86	432	py,sm,gn,cob	Ag
		83-11	1983	126.5	-50	76	430	py	Ag
		83-12	1983	126.5	-50	100	501	Ag,py,sm,gn, cob,po	Ag
		83-13	1983	126.5	-50	72	426	py,cp,gn	Ag
		83-14	1983	040	-50	100	436	Ag,hem,sm,cp, cob,py	Ag
		83-15	1983	126.5	-50	107	436	hem,py,cob, sm	Ag
		83-16	1983	306.5	-50	95	406	Ag,py,hem,asp sp,gn,cob,arg	Ag
		83-17	1983	126.5	-50	96	451	hem,py,po,sm	Ag
		83-18	1983	126.5	-50	86	326	hem,py,cp	Ag
81	Silverside Resources Inc.	84-2	1984	126.5	-50	80.5	450	hem,py,sm,gn	Ag
		84-3	1984	126.5	-50	92	466	Ag, py	Ag
		84-4	1984	126.5	-50	100	480	hem,py,gn	Ag
		84-5	1984	311.5	-50	86	437	hem,py,gn,sp cp	Ag

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
81 cont.	Silverside Resources Inc.	84-6	1984	126.5	-50	175	492	hem,py	Ag
		84-7	1984	145	-50	100	457	gn,sm,mar,cp, py	Ag
		84-8	1984	306.5	-50	94	457	hem,gn,py,mar, cp,Ag,nc	Ag
		84-9	1984	104	-40	91	587	gn,cob,py,cp, sm,Ag,nc,sp	Ag
		84-10	1984	311.5	-50	99	447	hem,cp,gn	Ag
		84-11	1984	310	-50	105	457	gn,sp,cp	Ag
		84-12	1984	310	-50	85	410	hem,cp,cob,Ag	Ag
		84-13	1984	310	-50	90	417	hem,py,gn,sp, mar,cob,cp,sm	Ag
		84-14	1984	310	-60	82	355	py,gn,sp,cp, mar	Ag,Au
		84-15	1984	005.5	-50	95	407	py,cp	Ag
		84-16	1984	005.5	-50	93	417	cp,sp,gn,mar	Ag
		84-17	1984	145	-50	126	407	cp,hem	Ag
		84-18	1984	145	-50	164	377	cp,mar,	Ag
		84-19	1984	170	-50	163	130	hem,mar	Ag

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
82	Silverside Resources Inc. Con. XII	82-13	1982	090	-55	108	108		
		82-14	1982	135	-55	152	152		
83	Smith, G.A.	1	1951	055	-60	0	104		
		2	1951	132	-60	0	98		
		3	1951	132	-75	0	38		
84	Temiskaming Project Syndicate	1	1960	270	-45	151	277		
85	Temiskaming Project Syndicate	2	1960	090	-45	19	212		
86	Temiskaming Project Syndicate	3	1960	270	-55	25	484		
87	Temiskaming Project Syndicate	4	1960	090	-60	57	692		
		6	1960	090	-50	45	212		
		13	1960	090	-50	15	767		

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
87 cont.	Temiskaming Project Syndicate	14	1960	270	-45	10	204		
88	Temiskaming Project Syndicate	5	1960	270	-50	47	209		
		9	1960	270	-50	44	751		
		15	1960	270	-50	33	644		
89	Temiskaming Project Syndicate	7	1960	045	-54	138	502	py, cp	Ag
90	Temiskaming Project Syndicate	8	1960	293	-56	30	674		
		12	1960	293	-46	75	330		
91	Temiskaming Project Syndicate	10	1960	270	-50	43	330		
92	Temiskaming Project Syndicate	11	1960	270	-56	93	390		
93	Temiskaming Project Syndicate	16	1960	270	-51	112	350		
		20	1960	270	-50	42	373		

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
94	Temiskaming Project Syndicate	17	1960	270	-50	75	400		
95	Temiskaming Project Syndicate	18	1960	293	-55	7	860		
96	Temiskaming Project Syndicate	19	1960	180	-45	8	356		
97	Temiskaming Project Syndicate	21	1960	270	-50	40	456		
98	Temiskaming Project Syndicate	22	1960	000	-50	100	397		
99	Thomson, R.	A-1	1970	096	-33	3	123	py, cp	
		A-2	1970	096	-52	3	102	py, cp	
		A-3	1970	145	-50	2	61	py, cp	
100	Trend Explorations & Development Co. Ltd.	1	1964	000	-35	10	250		
101	Trend Explorations & Development Co. Ltd.	2	1964	160	-45	11	251		

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
101 cont.	Trend Explorations & Development Co. Ltd.	2A	1964	340	-47	16	250	gf	
102	Trend Explorations & Development Co. Ltd.	3	1964	270	-45	6	250		
103	Voyager Explorations Ltd.	1	1961	000	-60	0	110		
104	Wilcox, A.E.	S-2	1953	040	-47	2	82		
		S-3	1954	280	-55	5	87		
		S-4	1955	355	-45	5	159	cp	
105	Wilcox, A.E.	?	1952	240	-43		81		
106	GQR Resources	GQR 85-1●	1985	168	-45	11	205	py	
		GQR 85-2●	1985	170	-50	11	205	mag, cp, py	
107	Osisko Lake Mines Ltd.	NL 85-1●	1985	256	-45	50	100	py, po	Ag, Co
108	Osisko Lake Mines Ltd.	NL 85-2●	1985	270	-45	83	443	hem, py, cp	Ag, Co

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
109	Osisko Lake Mines Ltd.	NL 85-3	1985	000	-45	52	459	py,cp,Ag,hem	Ag,Co
110	Osisko Lake Mines Ltd.	NL 85-4	1985	180	-45	22	74		
111	Osisko Lake Mines Ltd.	NL 85-5	1985	180	-45	12	400	hem	Ag,Co
112	Osisko Lake Mines Ltd.	NL 85-6	1985	000	-45	67	291	py,hem	Ag,Co
113	Osisko Lake Mines Ltd.	NL 85-7	1985	000	-45	42	369	py	Ag,Co
114	Proteus Resources Inc.	P85-1	1985	270	-50	33	695	cp,py,hem, ars	Ag
		P85-2	1985	090	-50	57	795	py,mar,hem,cp	Ag
		P85-3	1985	090	-50	61.5	754.3	py,hem, ars,cp	Ag
		P85-4	1985	090	-50	63.3	755	py,hem,cp	Ag
		P85-5	1985	090	-50	64.3	770	py,hem,cp	Ag
		P85-6	1985	090	-50	55.2	825	py,cp,hem	Ag
		P85-7	1985	345	-50	50.3	785	cp,py,hem	Ag
115	Proteus Resources Inc.	P85-8	1985	180	-50	3	1029	cp,py,po,talc	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
116	Proteus Resources Inc.	P85-9	1985	090					
117	Proteus Resources Inc.	P85-10	1985	48.5	-50	82.5	430	py,cp,po,hem	Au
		P85-11	1985	48.5	-50	24	475	py,cp,talc, hem	Au
118	Gossan Resources Ltd.	GL-84-1	1984	180	-60	10	885	py,cp,hem,mi	Ag
119	Gossan Resources Ltd.	GL-84-2	1984	180	-60	26	750	hem,py,lim,cp po	Ag,Cu,Au
120	Silverside Resources Inc. (Property #55)	84-20	1984	224.5	-50	90	457	hem,cp,mar,gn sp	Ag,Zn
		84-21	1984	306.5	-50	85	407	hem,mar,nc,mc cp,py,cob	Ag
		84-22	1984	306.5	-50	144	437	py,gn,cp,Ag sp,mar	Ag
		84-23	1984	306.5	-50	174	457	py,hem,cp,cob nc,sp	Ag
		84-24	1984	306.5	-50	165	447	hem,py,cp,mar sp	Ag
		84-25	1984	306.5	-50	186	457	cp,hem,py,nc mar	Ag

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
120 cont.	Silverside Resources Inc. (Property #55)	84-26	1984	306.5	-50	142	427	py,mar,nc,cp sp,gn,cob	Ag
		84-27	1984	008	-50	91	457	hem,cp,cob,sp gn,Ag,nc	Ag
		84-28	1984	126.5	-50	95	437	hem,py,cp	Ag
		84-29	1984	126.5	-51	22	345	hem,mar,cp,Co sp	Ag
		84-30	1984	126.5	-55	72	367	hem,cp,cob,gn py	Ag
		84-31	1984	115	-50	102	419	py, cp	Ag
		84-32	1984	105.5	-50	108	367	hem, cp, py	Ag
		84-33	1984	306.5	-50	102	425	cp, py	Ag
121	Silverside Resources Inc. (Property #55)	TH-1	1984	-	-90	0	115		
		TH-2	1984	-	-90	0	130	hem	
		TH-3	1984	-	-90	31	31		
		TH-4	1984	-	-90	45.5	45.5		
		TH-5	1984	-	-90	0	265	mar, py, cp	

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
122	Silverside Resources (Property #55)	U85-100	1985	139	-24	-	318	hem,py,cp	Ag
		U85-101	1985	121.5	-11.7	-	346	hem,cp,py,gn	Ag
		U85-102	1985	118.8	-19.2	-	323	cp,hem,py	Ag
		U85-103	1985	131.5	-19.6	-	481	py,hem,cp	Ag
		U85-104	1985	137.4	-21	-	443	hem,py,cp	Ag
		U85-105	1985	149	-11	-	105	cp	
		U85-202	1985	225.5	+03	-	602	cp,py,sp,gn, Co,Ag	Ag
		U85-204	1985	232	-01	-	598	cp,py,sp,gn, Co	Ag
		U85-205	1985	247	-01	-	584	py,cp,Co,sp, Ag	Ag
		U85-206	1985	260	00	-	636	py,cp,sp,gn	Ag
		U85-207	1985	253	-01	-	595	cp,py,sp,mar, hem,gn	Ag
		U85-208	1985	240	-06	-	598	cp,py,gn,sp	Ag
		U85-209	1985	260	+04.5	-	547	Co,gn,sp,cp sm	Ag
		U85-210	1985	273	00	-	608	cp,sp,gn	Ag

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
122 cont.	Silverside Resources Inc. (Property #55)	U85-211	1985	292.5	00	-	600	cp, Co, py, sp, gn	Ag
		U85-212	1985	312	00	-	602	cp, gn	Ag
		U85-213	1985	323	00	-	614	cp, Co	Ag
123	Silverside Resources Inc. (Property #55)	U85-302	1985	219	-08.5	-	356	py, cp, gn	Ag
		U85-303	1985	126	00	-	376	hem, cp	Ag
		U85-304	1985	155.5	00	-	394	cp, gn, hem, sm, Ag	Ag
		U85-305	1985	101	00	-	340	cp, sm, jas, py	Ag
		U85-308	1985	290	00	-	247	cp, gn, sm, cob, Ag	Ag
		U85-309	1985	300	00	-	246	cp, gn, sp, sm	Ag
		U85-310	1985	307	00	-	214	cp, py, sm	Ag
		U85-311	1985	319	00	-	300	cp, gn, mar, sm	Ag
		U85-315	1985	304	-04	-	328	cp, sp, py, sm	Ag

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
123 cont.	Silverside Resources Inc. (Property #55)	U85-316	1985	279	+10	-	275	cp, py, hem, gn, sp	Ag
		U85-317	1985	279	00	-	296	cp, sp, mar, py, gn	Ag
		U85-318	1985	279	-09	-	297	cp, sp, gn, sm	Ag
		U85-319	1985	269	+10	-	296	cp, py, gn, sp, sm	Ag
		U85-320	1985	269	00	-	250	cp, gn, sm	Ag
		U85-321	1985	269	-09	-	250	cp, py, gn, sm, Ag	Ag
		U85-322	1985	269	-17	-	295	gn, py, cp, sp, sm, mar	Ag

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
124	Proteus Resources Ltd.	P-85-12	1985	300	-50	8	475	py, cp, gn, sp, ars	Ag
		P-85-13	1985	025	-45	12	435	cp, hem, sp, py, mag	Ag
		P-85-14	1985	025	-45	24	405	cp, py, hem	Ag
		P-85-15	1985	025	-45	32	375	cp, py	Ag
125	Proteus Resources Ltd.	P-86-1	1986	048	-50	12	655	py, cp, hem, spec, gn	Ag, Au
		P-86-2	1986	048	-50	136	462	py, cp, hem, mag, spec	Ag, Au
		P-86-5	1986	308.5	-45	178	449	py, hem, cp, mag, spec	Ag, Au
		P-86-6	1986	309	-50	160	499	py, cp, mag, spec	Ag, Au
		P-86-12	1986	048	-50	62	508	py, cp, hem	Ag, Au
		P-86-13	1986	048	-50	27	506	py, cp, mag, cob, asp, sk	Ag, Au

SD-F FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
125 cont.	Proteus Resources Ltd.	P-86-14	1986	048	-50	73	732	py, mag, cp	Ag, Au
		P-86-15	1986	360	-50	16	506	py, cp, hem, po, mag	Ag, Au
		P-86-16	1986	090	-50	112	517	py, cp, spec, hem, mag	Ag, Au
		P-86-17	1986	048	-58	9.7	501	py, s, cp, mag, hem, serp	Ag, Au
		P-86-18	1986	048	-50	11	505	spec, py, cp, gn, hem, cob	Ag, Au
		P-86-19	1986	173	-50	6	503	py, spec, hem	Ag, Au
		P-86-20	1986	048	-50	40	507	py, spec, hem, mag	Ag, Au
		P-86-21	1986	356	-50	26	515	py, spec, hem, cp	Ag, Au
		P-86-22	1986	325	-50	21	545	py, hem, serp, mag, cp	Ag, Au
		P-86-23	1986	325	-50	30.8	527	py, hem, cp, mag, gn, spec	Ag, Au
		P-86-24	1986	090	-50	110	567	cp, hem, py	

LORRAIN TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
126	Proteus Resources Ltd.	P-86-3	1986	027	-52	22	527	py, cp, hem, spec	Ag, Au
		P-86-4	1986	029	-50	8	397	spec, hem, py, cp	Ag, Au
		P-86-7	1986	271	-51	27	798	py, cp, mag, hem, spec	Ag, Au
		P-86-8	1986	270	-50	38.5	657	py, spec, mag, serp, cp	Ag, Au
		P-86-9	1986	270	-50	21	501	mc, py, cp, spec, mag	Ag, Au
		P-86-10	1986	25	-50	24.7	600	py, cp, hem, mag	Ag, Au
		P-86-11	1986	025	-45	27	552	py, cp, spec, mag	Ag, Au

GD F FORM 2.3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
127	Silver Lake Resources Inc./Silverside Resources Inc.	SS-85-1	1985	322	-45	40	314	py, cp, sp, gn	Ag
		SS-85-2	1985	322	-45	46	294	py, hem, cp	Ag
		SS-85-3	1985	025	-45	29	334	py, hem, cp, sp, gn, sk	Ag
		SS-85-4	1985	115	-45	92	258	cp, hem	
128	Silver Lake Resources Inc./Silverside Resources Inc.	SS-85-5	1985	320	-45	88.3	722	serp	
		SS-85-7	1985	285	-45	100	870	hem, cp	Ag
		SS-85-10	1985	260	-50	26	812	cp	Ag
		SS-85-11	1985	285	-50	120.6	875	hem, py	Ag
129	Silver Lake Resources Inc./Silverside Resources Inc.	SS-85-8	1985	285	-50	15.5	815	hem, py, mar	Ag
		SS-85-9	1985	285	-50	46.2	805	hem, cp, mar	Ag
		SS-85-14	1985	285	-50	42.4	996	cp, hem, py	Ag
		SS-85-16	1985	286	-45	6	966	cp, asb, mar, sp, cob	Ag

LORRAIN TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
130	Silver Lake Resources Inc./Silverside Resources Inc.	SS-85-12	1985	West	-50	41.3	520		Ag
		SS-85-13	1985	245	-50	139	891	asb, py	Ag
		SS-85-15	1985	351.5	-50	21	926	hem, cp, mar	Ag
131	Silver Lake Resources Inc./Silverside Resources Inc.	SS-85-6	1985	350	-50	139	410	hem	Ag
132	Silver Lake Resources Inc./Silverside Resources Inc.	U-86-R1	1986			-	52	cp	
		U-86-R2	1986		+50	-	48	cp, py, cob	Ag
		U-86-R3	1986			-	74	serp, cp, py	Ag
		U-86-R4	1986			-	38		
		U-86-214	1986	340	FLAT	-	580	cp, py, sp	
		U-86-215	1986	2	+1	-	597	py, cp, sid, gn	
		U-86-216	1986	22	FL	-	598	cp, py, Ag	Ag
		U-86-218	1986			-	983	cp, py, gn, cob	Ag

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
132 cont.	Silver Lake Resources Inc./Silverside Resources Inc.	U-86-219	1986				668	cp, py, gn, sp	Ag
		U-86-306	1986	81	-2	-	302	cp, py	
		U-86-307	1986	64	FL	-	303	cp, py, gn	
		U-86-311	1986	319	FL	-	300	cp, gn, mar, py, cob, serp	Ag
		U-86-323	1986	177	FL	-	403	cob, Ag, cp, gn, mar	Ag
		U-86-324	1986	198	FL	-	383	cp, cob, gn, Ag	Ag
		U-86-325	1986		-95	-	378	cp, py, gn, cob, sp, Ag	Ag
		U-86-326	1986		+19.5	-	362	cp	
		U-86-327	1986		FL	-	889	cp, py, sp, po	Ag
		U-86-401	1986			-	306	cp, py, gn, sp, po	Ag
		U-86-402	1986			-	338	py, cp, sp, gn	Ag

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
132 cont.	Silver Lake Resources Inc./Silverside Resources Inc.	U-86-403	1986			-	350	sp, cp, gn, py	Ag
		U-86-404	1986			-	228		Ag
		U-86-405	1986			-	303	py, cp, gn, sp, po	Ag
		U-86-406	1986			-	302	gn, cp, sp, Ag, po, cob	Ag
		U-86-407	1986			-	329	gn, py, cp, py, po, arg	Ag
		U-86-408	1986			-	300	py, cp, gn, Ag	Ag
		U-86-409	1986		+45	-	48		
		U-86-410	1986		+15	-	323	gn, sp, cp, po, py, cob, Ag	Ag
		U-86-411	1986		1	-	292	Ag, cob, cp	Ag
		U-86-412	1986	251	+30	-	358	sp, gn, cp, Ag, cob	Ag

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
132 cont.	Silver Lake Resources Inc./Silverside Resources Inc.	U-86-413	1986	251	+45	-	74	gn, po, sp, cp	
		U-86-414	1986			-	510	py, cp, sp, cob	Ag
		U-86-501	1986	194	-15	-	110	py, gn, cp, sp, cob, arg	Ag
		U-86-502	1986	194	FL		250	cp, py, Ag, cob, po	Ag
		U-86-503	1986	189	+38	-	263	gn, cp	Ag
		U-86-504	1986	156	FL	-	303	py, po, sp, gn	Ag
		U-86-505	1986	176	FL	-	123	cp, po, Ag, cob, arg	Ag
		U-86-506	1986	177	+20	-	120	cob, cp, gn	Ag
		U-86-507	1986	177	-20	-	101	cp, py, ars, Ag, cob, sp	Ag
		U-86-601	1986		FL	-	146	cp, cob, Ag, arg, serp, py	Ag
		U-86-602	1986			-	52	cp, cob, py	Ag

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
132	Silver Lake Resources Inc./Silverside Resources Inc.	U-86-603	1986			-	48	cp, gn, cob, asp, py	Ag
		U-86-604	1986			-	50	cp, py	Ag
		U-86-605	1986			-	50	cp, py	Ag
		U-86-606	1986			-	43	py	
		U-86-607	1986			-	53	cp, ars	Ag
		U-86-608	1986			-	56	cp, ars	Ag
		U-86-609	1986			-	52	py, asp, ars, cp, Ag, cob	Ag
		U-86-610	1986			-	43	gn, arg, cp, sp	Ag
		U-86-611	1986			-	49	cob, cp, py	Ag
		U-86-702	1986			-	48	cp, py, gn, cob, sp	Ag
		U-86-704	1986			-	58	sp, cp, gn, py, cob	Ag
		U-86-706	1986			-	54	py, sp, cob	Ag
		U-86-707	1986			-	31	cp	

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
132 cont.	Silver Lake Resources Inc./Silverside Resources Inc.	U-86-708	1986			-	47	py	
		U-86-709	1986			-	47		
		U-86-710	1986			-	60	cob, cp, sp, py	Ag
		U-86-712	1986			-	50	cob, py	Ag
		U-86-713	1986			-	50	cp, py	

GDIF FORM NO. 3

LORRAIN TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
	No data available as of February 15, 1990.				

GDIF FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
1	Rock samples from fresh unweathered surfaces close to fractures & joints collected on 100' grid	Silver, Cobalt, Arsenic, Mercury at Falconbridge Laboratories and Technical Service Laboratories	Falconbridge Nickel Mines Ltd., & Ralph I Benner	Lorrain Twp. AF-Aggressive Mining Ltd. (1972)
22	Grab samples from shafts & trenches	Total heavy minerals Au, Ag, Co, Zn, Ni, Cu - assays by Bondar-Clegg & Co. Ltd.	Ronald M. Clarke	Lorrain Twp. AF-Clarke, Ronald M. (1981)
74	"B" Horizon soil & stream sediment sampling	Ag, Co, As	Dan Gignac	Lorrain Twp. AF-Osisko Lake Mines Ltd. (1985)

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
G.	Rb/Sr	volcanic	MRC 10, p.333	3100 my
G.	Pb/Pb	sediment	MRC 10, p.333	2150 my
G.	Pb/Pb	diabase	MRC 10, p.333	2150 my
G.	Pb/Pb	diabase	MRC 10, p.333	1000 my
G.	Rb/Sr	ore	MRC 10, p.333	2150 my
B.	K/Ar	Lorrain granite	MRC 10, p.334	2490 my
B.	Rb/Sr	Nipissing diabase	MRC 10, p.334	2150 my
H.	Rb/Sr	diabase	MRC 10, p.330	2150 my
H.	Rb/Sr	ore	MRC 10, p.330	2150 my
D.	K/Ar	granite	MRC 10, p.331	2490 my
D.	Rb/Sr	diabase	MRC 10, p.331	2150 my
D.	Rb/Sr	ore	MRC 10, p.331	2150 my
F.	Rb/Sr	diabase	MRC 10, p.332	2150 my
F.	Rb/Sr	ore	MRC 10, p,332	2150 my
1	K/Ar	hornblende	OGS Map 2842	2501 $\pm$ 72 my

LANDSAT COLOUR PHOTO - NTS 31M

LS	TR	FR	Date of Imagery	Band	Cycle/Day
2	20	27	13/10/81	C_1	136/10

on file in Cobalt office

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Cobalt

Bar-Manitou Mines Ltd.
Consolidated Frederick Mines Ltd.
G.Q.R. Resources
Gossan Resources
Hamilton Lorrain Mines Ltd.
Nama Creek Mines Ltd.
Nasco Cobalt Silver Mines
Osiska Lake Mines
Pan Silver
Paul "Pine Lake"
Silverside Mines Ltd.
Teledyne Canada Ltd.
Trend Exploration & Development Co. Ltd.
Young Mines Ltd.

ODM GENERAL INDEX SEARCH

Words searched:

Aggressive Mining Ltd.
Alcourt Mines Ltd.
Anderson Lake
Armstrong, James
Armstrong, S.W.
Benner, Ralph I.
Berry, L.R.
Big Agaunico Mines Ltd.
Big Fissure Mining Co. Ltd.
Bigelow, George
Bischoff, H.R.
Blueman-Mattson

Index Volume	Listing:	Report Volume	Part	Page
1	Big Fissure Mining Co.			
	Capital and date of charter	16	2	181
		18	1	44
	Chown Lake, Lorrain Twp.	16	2	37
		19	2	91,118
	Rocks near	14	2	40
		16	2	43
	Devil's Rock, L. Temiskaming	14	2	41
	Huronian,	16	2	42
	photo	16	2	59
	Empire Cobalt Mines Ltd.			
	Capital and date of charter	16	2	177
		17		35
	Work by, Lorrain Twp.	19	1	100
	Erie Cobalt Silver Mine, Lorrain Twp.			
	Capital and date of charter	16	1	28
		16	2	173
	Sold	22	1	111
	Work at	16	2	86
	German American Mining Co.			
	Capital and date of charter	19	1	46
	Goodwin Lake, Lorrain Twp.			
	Course	14	2	35
		16	2	37
		19	2	91,118
	Huronian	14	2	40
		16	2	43

ODM GENERAL INDEX SEARCH

Words searched:

Bouck Lake
Brady Cross Lake Silver Mines Ltd.
Brady, J.
Brady, M.J.
Broshier Porcupine Mines Ltd.
Brown, D.
Brown, W.E.
Burton, Douglas
Caswell
Caswell Lake
Chown Lake

Index Volume	Listing:	Report Volume	Part	Page
1	Kirk Lake, Lorrain Twp.			
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	Garnets	19	2	64
	Granite	16	2	47
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	Keewatin	14	2	45,46
		16	2	53
	Lamprophyre dikes	19	2	71,72
	Strike of	16	2	37
		19	2	118
	Timiskaming series	19	2	62,64
	Lang-Caswell Silver Mine, Lorrain Twp.			
	Capital and date of charter	19	1	47
	Prospects	20	1	54
	Latour Lake, S. Lorrain Twp.			
	Power station proposed	19	1	91
	Silver mining near	25	1	126
	Latour Lake Mines Ltd.			
	Capital and date of charter	19	1	47
	Lorrain Twp., Timiskaming			
	Map of S. portion, geologically coloured with	18	2	
	Rocks	14	2	6,41,46
		16	2	42,43
		19	2	48,78
	photo	14	2	47
		16	2	56
	Silver mining (1915)	25	1	125,126

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Chrysler-Niles
Chukuni Gold Mines Ltd.
Ciglen Investments Ltd.
Clarke, R.M.
Clenor Mining Co. Ltd.
Cloutier, Alfred
Cobalt Consolidated Mining Corp. Ltd.
Cominga
Coniagas Mines Ltd.
Crown Reserve Mine
Currier & Watson

Index Volume	Listing:	Report Volume	Part	Page
1	Lorrain Twp., Timiskaming			
	prospecting			
	Striae	15	1	7
		19	2	111
	Martineau Bay, L. Temiskaming			
	Rocks near	14	2	48
		16	2	59
		19	2	98
	Montreal River Mining Syndicate			
	Capital and date of charter	16	1	30
		16	2	74
	Silver Square Mining Co.			
	Capital and date of charter	16	2	178
		17		37
	Wolst-Rees Cobalt Silver Mg., Co.			
	Capital and date of charter	16	1	31
2	East Cobalt Silver Claim, Coleman Twp.			
	Location see map 31a-21 with	31	2	
	Gillies Limit, Coleman and Lorrain Twp.			
	Prospecting active	29	1	50
	by Crown Reserve Mg. Co.	25	1	97
	Giroux Silver Mine, Latour L., South Lorrain Twp.,			
	Development Work	31	2	237

ODM GENERAL INDEX SEARCH

Words searched:

de Camps, E.B.E.
Derry, W.C.
Devil's Rock
Dixon, G.
Durex Mines Ltd.
East Cobalt Mines Ltd.
Empire Cobalt Mines Ltd.
Erie Cobalt Silver Mining Co., Ltd.
Falconbridge Nickel Mine Ltd.
Frederick Yellowknife Mines Ltd.
Gaffney

Index Volume	Listing:	Report Volume	Part	Page
2	Kirk Lake, Lorrain Twp.			
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	Lang-Caswell Silver Mine, Lorrain Twp.			
	Development work; prospects promising	31	2	237
	Latour Lake, S. Lorrain Twp.			
	Silver Mg., see Giroux Silver Mine			
	Lorrain Twp., Timiskaming			
	See also Gillies Limit			
	Rocks	31	2	337
	Silver Mg.	27	1	131
		31	2	237
	Martineau Bay, L. Timiskaming			
	Sand for building	27	2	118
	analysis	27	2	112
	Pine Lake-Lorrain Silver Mines Ltd.			
	Capital and date of charter	35	1	60
3	Lang-Caswell Silver Mine, Lorrain Twp.			
	Leesees and address	46	1	78
	Pine Lake-Lorrain Mines Ltd.			
	Capital; officers; operations	37	1	182

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Gamble Prospecting Syndicate, The
Gaudaur, John
German American Mining Co.
Giroux, Fred A.
Goodwin Lake
Gorman
Heikilla, T.R.
Howes
International Cobalt & Silver Mining Co. Ltd.
Kirk Lake

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	Incorporated	38	1	56
	Officers; operations (1934)	44	1	64
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4	Broshier Porcupine Mines Ltd.			
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	Durex Mines Ltd.			
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	Frederick Yellowknife Mines Ltd.			
	Incorporated	55	1	49
5	Big Agaunico Mines Ltd.			
	Incorporated	62	1	60
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	of Cordon Cobalt Mines	64	2	128
	Brady-Cross Lake Silver Mines, Ltd.			
	Preston East Dome option on claims	60	2	65
	Clenor Mining Co. Ltd.			
	Change of name	60	1	46
	de Camps, E.B.E.			
	of Coballoy Mines and Refiners	64	2	124
	Consolidated Silver Banner Mines	60	2	93
		61	2	98
		62	2	107

ODM GENERAL INDEX SEARCH

Words searched:

La Compagnie Miniere de L'Ungava Ltee.
Lang-Caswell Cobalt Mines Ltd.
Lang Lake
Lapaladan Corp. Ltd.
Latour Lake
Latour Lake Mines Ltd.
Leconte Lake
Little Fissure
Lorrain Township
Lorrain Valley
Malouf, Stanley M.

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	of Roy Silver Mines	60	2	96
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	Silver-Miller Mines	60	2	98
		61	2	106
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		63	2	138
	United Cobalt Mines	61	2	108
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	Nasco Cobalt Silver Mines Ltd.			
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	name changed	61	1	48
	Silver Heart Mines Ltd.			
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6	Kirk Lake Silver Mine, Lorrain Twp.			
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	Lorrain Twp., Timiskaming			
	Silver claims	65	2	135
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	March Minerals Ltd.			
	Incorporated	65	1	34
	McAllister, R.C.			
	Leesee, Buffalo Silver Mine	68	2	100

ODM GENERAL INDEX SEARCH

Words searched:

Manasseh Silver Cobalt Mines Ltd.
March Minerals Ltd.
Martineau Bay
McAllister, Robert
McCullough, Edward William
McGregor, J.
McKinley-Darragh-Savage Mines Ltd.
Miller, H.G.
Mission Point
Montreal River Mining Syndicate

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7	Berry, L.R.			
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	Smith-Cobalt Silver Mine, Coleman Twp.			
	Operations (1961)	71		128
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8	Big Fissure Mining Co. Ltd., Lorrain Twp., Timiskaming Dist.			
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GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Nama Creek Mines Ltd.
Nasco Cobalt Silver Mines Ltd.
Negus, R.D.
Nichol Lake
O'Neill, John
Paul, Walter
Pine Lake
Pine Lake-Lorrain Silver Mines Ltd.
Preston East Dome Mines
Price, J.H.
Quinlan, G.J.

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	report on Brady claim	MRC 10		235
	Lorrain Twp., Timiskaming Dist.			
	mining property, report on	MRC 10		333
	Caswell Mine, Lorrain Twp., Timiskaming Dist.			
	mining property, report on	MRC 10		334
	Cloutier, A & F,			
	S. Lorrain Twp., Timiskaming Dist.			
	mining property, report on	GR83		45-46
	de Camps, E.B.E. Estate			
	S. Lorrain Twp., Timiskaming Dist.			
	mining property, report on	GR83		11,28, 49-50, 52
	East Cobalt Mines Ltd., Lorrain Twp., Timiskaming District			
	mining property, report on	MRC 10		335
	Empire Cobalt Mines Ltd., Lorrain Twp., Timiskaming District			
	mining property, report on	MRC 10		332

GDI FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Rockzone Mines Ltd.
Ryan
Silver Finders Mining Syndicate Ltd.
Silver Heart Mines Ltd.
Silver Square Mining Co. Ltd.
Silverside Resources Ltd.
Siscoe Metals Ltd.
Smith-Cobalt Mines Ltd.
Smith, G.A.
Suddie Lake
Taylor Pipe Ltd.

Index Volume	Listing:	Report Volume	Part	Page
8	Lorrain Twp., Timiskaming Dist.			
	Silver/Cobalt	MRC 10		330-339
	summary of field work (1973) (S. part) by J.W. deGrijs, H.L. Lovell	MP 56		148-151
	McAllister, R.C.			
	Coleman Twp., Timiskaming Dist.			
	mining property, report on	MRC 10		242
	report on Buffalo lease	75		124
		76		155
		77		141
		80		97
	Miller, H.G.			
	S. Lorrain Twp., Timiskaming Dist.	GR83		50,54, 60,62, 82
	Taylor Pipe Ltd., Lorrain Twp., Timiskaming Dist.			
	report on Caswell Mine	MRC 10		334
9	Aggressive Mining Co., Lorrain Twp., Timiskaming Dist.	MP51		12
	Anderson Lake, Lorrain Twp., Timiskaming Dist.	MP51		4,14
	Bouck Lake, Lorrain Twp., Timiskaming Dist.	MP51		2,4,10, 13

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Teck Explorations Ltd.
Temiskaming Project Syndicate
Thompson, F.W.
Thomson, R.
Trend Explorations & Development Co. Ltd.
Vanadium Exploration Syndicate Ltd.
Voyager Explorations Ltd.
Wabi Cobalt Silver Mining Co. Ltd.
Whalen, W.

Index Volume	Listing:	Report Volume	Part	Page
9	Caswell Lake, Lorrain Twp., Timiskaming Dist.	MP51		4,5,6,9
	Caswell-Lang Deposit see Lang-Caswell Deposit			
	Chukuni Gold Mines Ltd., Lorrain Twp., Timiskaming Dist. report on property	MP51		12
	Crown Reserve Mining Co., Ltd. Lorrain Twp., Timiskaming Dist.	MP51		13
	Durex Mines Ltd., Lorrain Twp., Timiskaming District report on property	MP51		12
	Giroux Silver-Cobalt Deposit, Lorrain Twp., Timiskaming Dist. report on property	MP51		12
	Goodwin Lake Deposit, Lorrain Twp., Timiskaming Dist. report on property	MP51		13
	Lang-Caswell Deposit, Lorrain Twp., Timiskaming District report on property	MP51		12-13
	Latour Creek, Lorrain Twp., Timiskaming Dist.	MP51		9,10
	Latour Lake, Lorrain Twp., Timiskaming Dist.	MP51		4,7,12

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Wilcox, A.E.
Wolst-Rees Cobalt Silver Mining
Co. Ltd.

Index Volume	Listing:	Report Volume	Part	Page
9	Lorrain Twp., Timiskaming Dist.			
	Galena	MP70		165
	Geology of the area (S.part)			
	Report & map on, 1976, by H.L. Lovell & J.W. de Grijs	MP51		
	Lorrain Valley, Lorrain Twp., Timiskaming Dist.	MP51		6,10
	McAllister, R.C. Prospect, Lorrain Twp., Timiskaming Dist.			
	report on property	MP91		85
	Manasseh Deposit, Lorrain Twp., Timiskaming Dist.			
	report on property	MP51		13
	Mission Point, Lorrain Twp., Timiskaming Dist.	MP51		10,11
	Negus, R.D., Lorrain Twp., Timiskaming Dist.			
	report on Goodwin L. Deposit	MP51		13
	Pine Lake-Lorrain Mines Ltd., Lorrain Twp., Timiskaming Dist.	MP51		13
	Price Silver-Cobalt Deposit, Lorrain Twp., Timiskaming Dist.			
	report on property	MP51		14
	Siscoe Metals of Ontario Ltd., Lorrain Twp., Timiskaming Dist.	MP51		13

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
9	Thomson, R., Lorrain Twp., Timiskaming Dist.			
	report on property	MP51		14
	* Out of Print			

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K.D. et al	1971	Sudbury-Cobalt Sheet; Algoma, Manitoulin, Nipissing, Parry Sound, Sudbury & Timiskaming Districts, Ontario	ODMNA Map 2188	1:253 440
Card, K.D. Lumbers, S.B.	1977	Sudbury-Cobalt, NTS 31L/W, 31M/SW, 41I, 41P/S, Sudbury + AL 5 Districts, Ontario	OGS Map 2361	1:253 440
MERQ-OGS	1984	Lithostratigraphic Map of the Abitibi Subprovince	OGS Map 2484	1:500 000
Easton, R.M.	1986	Geochronology Compilation Map for Ontario: Sheet 1: Southern Ontario; Grenville Province and Environs, Ar-Ar and K-Ar Isotopic Systems	OGS Map P.2840	1:1 013 760
Easton, R.M.	1986	Geochronology Compilation Map for Ontario: Sheet 2: Southern Ontario; Grenville Province and Environs, Rb-Sr, Nd, Sm, U-Pb and other Isotopic Systems	OGS Map P.2841	1:1 013 760
Easton, R.M.	1986	Geochronology Compilation Map for Ontario: Sheet 3: East Central Ontario, All Isotopic Systems	OGS Map P.2842	1:013 760
Easton, R.M.	1986	Geochronology of Ontario, Part 1: Compilation of Data	OGS OFR 5592	179 p.

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOPHYSICAL MAPS		
	1957	Cobalt, Ontario and Quebec, aeromagnetic	GSC Map 511G	1:63 360
	1965	Cobalt, Ontario-Quebec, NTS 31M/5, aeromagnetic	GSC Map 1492G	1:63 360
	1965	Ville Marie, Quebec, NTS 31M/6, aeromagnetic	GSC Map 1492G	1:63 360
	1965	Timagami, Ontario, NTS 31M/4, aeromagnetic	GSC Geophysical Paper 1491 GSC Map 1491G	1:63 360
	1978	Airborne gamma-ray spectrometry maps and profiles, Ville Marie Sheet	OGS Map Set 80411-80425	1:250 000
Gupta, V.K. Wadge, D.R.	1980	Bouger Gravity and Generalized Geological Map, Temagami-Englehart Area Districts of Timiskaming, Nipissing & Sudbury	OGS P-2296	1:100 000
	1981	Timiskaming-Kapuskasing Region, Magnetic Anomaly Map	GSC Map 1563A	1:1 000 000
Gupta, V.K. Grant, F.S. Boud, A.	1981	A Gravity Study in North-Central Ontario, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey	OGS MP 100	No. 26 pp. 160-164

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Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOPHYSICAL MAPS		
Gupta, V.K.	1982	Gravity and Aeromagnetic Studies in North-Central Ontario: A Progress Report; in Summary of Field Work, 1982, edited by J. Wood et al, Ontario Geological Survey	OGS MP 106	No 24 pp. 165-167
Mansinha, L. Wilkinson, D.A.	1983	Interpretation of Gravity Data from New Liskeard, Ontario; Ontario Geoscience Research Grant Program, Grant No. 109	OGS OFR 5440	
GSC	1984	Sudbury, Ontario and Quebec, IMW NL 16/17, Magnetic Anamoly Map	GSC Map NL 16/17-M	1:1 000 000
Hanneson, J.E. , Huxter, R.S.	1986	The Detection and Mapping of Basement Conductors Under Areas Covered by Thick Huronian Sedimentary Rocks, District of Timiskaming; in Summary of Field Work and Other Activities, 1986, edited by P.C. Thurston, Owen L. White, R.B. Barlow, M.E. Cherry and A.C. Colvine, OGS	OGS MP 132	pp. 225-233
		Earth Physics Branch Gravity Map Series	EPB Maps No.84,	1:500 000
		Aeromagnetic	GSC Map 7075G	1:253 440
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
	1951	Haileybury, Ontario topographic	NTS 31M/SW	1:126 720
	1962	Timagami, Ontario topographic	NTS 31M/4	1:50 000

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SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Sabina, A.P.	1977	New Occurrences of minerals in parts of Ontario	GSC Report of Activities Paper 77-1A	pp. 335-339
Roed, M.A.	1979	Haileybury, NTS 31M/SW	NOEGTS 90 OGS Map 5024	1:100 000
Vincent, J-S Hardy, L.	1979	The evolution of glacial Lakes Barlow and Ojibway, Quebec and Ontario	GSC Bull. 316	
Pettunen, M.	1980	Quaternary Geology of the Cobalt Area (31M/5), District of Timiskaming; in Summary of Field Work, 1980, edited by V.G. Milne et al, Ontario Geological Survey	OGS MP 96	No. S13 pp. 114-116
	1982	Ontario Basic Map Sheets-topographic	MNR Maps 20 17 6000 52300 20 17 6100 52300 20 17 6000 52400 20 17 6100 52400 20 17 6000 52500	1:20 000
	1983	Cobalt, Ontario topographic	NTS 31M/5	1:50 000
		Quebec, topographic	NTS 31M/6	1:50 000
		Lorrain Township claim map	MNR Plan No. M536	1":40 ch.

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Author	Date	Title	Reference	Map Scales and/or Report Pages
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Springer, J.	1977	Ontario Mineral Potential Map, Gogama Sheet and part of Ville Marie Sheet, Districts of Sudbury & Timiskaming	OGS Map P.1514	1:250 000
Gordon, J.B.	1980	Vein Silver Deposits of Ontario, East Central Sheet	OGS Map P.2300	1:1 013 760
	1983	Industrial Minerals of Ontario	OGS Map 2591	1:1 500 000
		GEOCHEMICAL		
Koehler, G.F. Hostetler, P.B. Holland, H.D.	1954	Geochemical prospecting at Cobalt, Ontario	Econ. Geol. Vol. 49	pp.378-388
Boyle, R.W.	1966	Geochemical Prospecting Research in 1966, Cobalt Area, Ontario	GSC Paper 66-46	15 p.
Boyle, R.W. et al	1969	Research in geochemical prospecting methods for native silver deposits, Cobalt area, Ontario	GSC Paper 67-35	91 p.
Hornbrooke, E.H.W.	1972	Geochemical and biogeochemical exploration methods of research in the Cobalt area, Ontario	GSC Paper 71-32	45 p.
Patterson, G.C.	1979	Metallogenic Relationships of Base Metal Occurrences in the Cobalt Area; in Summary of Field Work, 1979, edited by V.G. Milne et al, Ontario Geological Survey	OGS MP 90	No. S 21 pp. 222-229

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Author	Date	Title	Reference	Map Scales and/or Report Pages
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Dillon-Leitch, H.	1980	Alteration and Mineralization in Archean Volcanic Rocks of the Cobalt Area; in Summary of Field Work, 1980, edited by V.G. Milne et al, Ontario Geological Survey	OGS MP 96	No. S 25 pp. 191-194
		GEOLOGICAL REPORTS AND MAPS		
McOuat, W.	1873	Report of an examination of the country between Lakes Timiskaming and Abitibi	*GSC Report of Progress 1872-1873 pt. VI	
Barlow, A.E.	1899	Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets, Comprising Portions of the District of Nipissing, Ontario and the County of Pontiac, Quebec	*GSC Annual Report X, pt. I	
			GSC Map 599	1:253 440
Bell, R.	1906	The Cobalt Mining District	*GSC Summary Report 1905	pp. 94-105
Bell, R.	1907	Cobalt District and Northward	*GSC Summary Report 1906	pp. 110-112
Parks, W.A.	1907	The Geology of the District from Lake Temiskaming Northward	*GSC Summary Report 1904, pt. A	pp. 198-225

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Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
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Burrows, A.G.	1909	South Lorrain Silver Area	OBM Annual Report 1909 Vol. 18, pt. 2	pp. 21-31
		Part of Lorrain and South Lorrain Twp., Ontario	OBM Map 18f	1:63 360
Brunton, S.	1915	Investigation of the Occurrence of Radioactive Minerals in Ontario.	*GSC Summary Report 1914	pp. 91-94
Thomson, R.	1960	Geology of North Part of Lorrain Twp., Conc. 7 to 12, Timiskaming Districts, Ontario	ODM PR 1960-1	
Thomson, R.	1960	Lorrain Township, Conc. XI, Lots 1-6, Conc. XII, Lots 1-5	ODM Map P. 61	1":400'
Thomson, R.	1960	Lorrain Township, Conc. IX, Lots 1-6	ODM Map P. 62	1":400'
Thomson, R.	1960	Lorrain Township, Conc. IX, Lots 7, 8, 9 Conc. X, Lots 7, 8	ODM Map P. 63	1':400'

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SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Thomson, R.	1960	Lorrain Township, Conc. VII, Lots 7-12 conc. VIII, Lots 7-10	ODM Map P. 64	1":400'
Thomson, R.	1960	Lorrain Township, Conc. VII, VIII, Lots 1-6	ODM Map P.65	1":400'
Thomson, R.	1962	Indexes for PRS issued in 1960-1 covering parts of Bucke + AL 3 townships in vicinity of Cobalt, Timiskaming District, Ontario	ODM PR 1962-2	
Thomson, R.	1964	Cobalt Silver Area, Northern Sheet, Timiskaming District, Ontario	ODM Map 2050	1":1000'
Thomson, R.	1964	Cobalt Silver Area, Southeastern Sheet, Timiskaming District, Ontario	ODM Map 2052	1":1000'
	1965	Haileybury	ODM Map P. 321	1:126 720
Roscoe, S.M.	1969	Huronian rocks and uraniferous conglomerates in the Canadian Shield	GSC Paper 68-40	205 p.
Lovell, H.L. de Grijs, J.W.	1970	Lorrain Township, southern part, Conc. 1 to 6, NTS 31 M/SW	ODM MP 51	
Lovell, H.L. de Grijs, J.W.	1978	Lorrain Township, southern part, Conc. 1 to 6, NTS 31M/SW, Timiskaming District, Ontario	OGS Map P. 1559	
Wood, J.	1978	Cobalt Area, District of Timiskaming; in Summary of Field Work, 1978, edited by V.G. Milne et al, Ontario Geological Survey	OGS MP 82	No. 20 pp. 116-118

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Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
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Wood, J.	1980	Regional Geology of the Cobalt Embayment, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1979, edited by V.G. Milne et al, Ontario Geological Survey	OGS MP 96	No. 14 pp. 61-63
Colvine, A.C.	1981	Reconnaissance of the Lorrain Formation, Northern Cobalt Embayment; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey	OGS MP 100	No. 29 pp. 187-189
Legun, A.S.	1981	Huronian Sedimentation in the Cobalt Area; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey	OGS MP 100	No. S 6 pp. 88-92
Russell, D.J.	1981	The Geology of the Paleozoic Outliers on the Canadian Shield; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey	OGS MP 100	No. 23 pp. 117-120

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Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
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Hunter & Associates Ltd.	1984	Peat and Peatland Evaluation of the New Liskeard Area	OGS OFR 5486, Volumes 1, 2, 3	
Owsiacki, L.	1984	1983 Report of the Resident Geologist; in Annual Report of the Regional and Resident Geologists, 1983, edited by C.R. Kustra, Ontario Geological Survey	OGS MP 117	pp. 169-178
Russell, D.J.	1984	Paleozoic Geology, Lake Temiskaming Area, Temiskaming District, Ontario	OGS MP 2700	1:50 000
Owsiacki, L.	1986	Cobalt Resident Geologist's Area, Northeastern Region; in Report of Activities 1986, Regional and Resident Geologist's, edited by C.R. Kustra, Ontario Geological Survey	OGS MP 134	pp. 219-232
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
Whitman, A.R.	1921	Genesis of the ores of the Cobalt District, Ontario, Canada	Ph.D. Thesis University of California, Berkley	

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Carlson, H.D.	1949	A study of certain ore minerals from Cobalt, Ontario	B.Sc. Thesis Queen's University, Kingston	
Bastin, E.S.	1950	Significant Replacement Textures at Cobalt and South Lorrain, Ontario, Canada	Economic Geology Vol. 45	pp. 808-817
Bourne, D.A.	1951	Wall rock alteration in the Nipissing diabase sill, Cobalt, Ontario	M.Sc. Thesis McMaster University, Hamilton	
Bowhey, R.D.	1951	Investigation of a silver vein in the Cobalt District	B.Sc. Thesis Queen's University, Kingston	
Hriskevich, M.E.	1952	Petrology of the Nipissing diabase sheet of the Cobalt area of Ontario	Ph.D. Thesis Princeton University, Princeton, N.J.	
Ellsworth, H.V.	1956	A study of certain minerals from Cobalt, Ontario	Ph.D. Thesis University of Toronto, Toronto	
Sampson, E. Hriskevich, M.E.	1957	Cobalt arsenide minerals associated with aplites of Cobalt, Ontario	Economic Geology Vol. 52	pp. 60-75

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Author	Date	Title	Reference	Map Scales and/or Report Pages
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
Thomson, R.	1957	The Proterozoic of the Cobalt Area, in J.E. Gill edition of the Proterozoic in Canada	Royal Society of Canada Special Publication 2	pp. 40-45
Tagseth, E.A.	1959	A study of rocks of the Cobalt Series	B.A.Sc. Thesis University of Toronto, Toronto	
Hellens, A.D.	1962	Silver Mining in the Cobalt Area	Precambrian 35, No. 6	pp. 22-26
Kanasewich & Farquhar	1965	Lead isotope ratios from the Cobalt-Noranda area	Can. Journal of Earth Sc., Vol. 2	pp. 361-384
Somanchi, S. Clark, L.A.	1966	The occurrence of an Ag_6Sb Phase at Cobalt, Ontario	Canadian Mineralogist Vol. 8	pp. 610-619
Kingston, P.W.E.	1969	The naturally occurring Cobalt Iron Sulpharsenide Minerals	Ph.D. Thesis Queen's University, Kingston	
Dass, A.S.	1970	Wall Rock Alteration enclosing the Silver Deposits, Cobalt, Ontario	Ph.D. Thesis Carleton University, Ottawa	
Berry, L.G.	1971	The silver-arsenide deposits of the Cobalt-Gowganda Region, Ontario	Mineral Assoc. Canada	430 p.

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Kurt, V.H.	1973	Sedimentology of the Huronian Coleman and Firstbrook Formations, Cobalt Area, Ontario	M.Sc. Thesis Carleton University, Ottawa	
Kim, W.S.	1980	Sulfide Mineralization in the Coleman Member in the Cobalt Area, Ontario	M.Sc. Thesis Carleton University, Ottawa	
Fancy, P.	1985	Silver Centre: The Story of an Ontario Mining Camp, Highway Bookshop, Cobalt, Ontario		145 p.
Andrews, A.J.	1986	Silver vein deposits: summary of recent research	Can. Journal of Earth Sciences, Vol. 23, No. 10	pp. 1459-1462
Andrews, A.J. Owsiacki, L. Kerrich, R. Strong, D.F.	1986	The Silver Deposits at Cobalt and Gowganda Ontario; I: Geology, petrography and whole-rock geochemistry	Can. Journal of Earth Sciences, Vo. 23, No. 10	pp. 1480-1506
Andrews, A.J. Masliwec, A. Morris, W.A. Owsiacki, L. York, D.	1986	The Silver Deposits at Cobalt and Gowganda Ontario; II: An experiment in age determinations employing radiometric and paleomagnetic measurements	Can. Journal of Earth Sciences Vol. 23, No. 10	pp. 1507-1518

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Kerrich, R. Strong, D.F. Andrews, A.J. Owsiacki, L.	1986	The Silver Deposits at Cobalt and Gowganda Ontario; III: Hydrothermal regimes and source reservoirs-evidence from H, O, C and SR isotopes and fluid inclusions	Can. Journal of Earth Sciences Vol. 23, No. 10	pp. 1519-1550
Goodz, M.D. Watkinson, D.H. Smejkal, V. Pertold, A.	1986	Sulphur-isotope geochemistry of silver-sulpharsenide vein mineralization, Cobalt, Ontario	Can. Journal of Earth Sciences Vol. 23, No. 10	pp. 1551-1567
Thorpe, R.I. Goodz, M.D. Jonasson, I.R. Blenkinsop, J.	1986	Lead-isotope study of mineralization in the Cobalt district, Ontario	Can. Journal of Earth Sciences Vol. 23, No. 10	pp. 1568-1575
Fancy, P.	1987	Silver Centre Rediscovered, Highway Bookshop, Cobalt, Ontario		146 p.
GSC	1988	Gravity-Bouguer Anomalies, Sudbury, Ontario and Quebec	GSC Map NL-17-GR(BA)	1:1 000 000
Hornbrook, E.H.W. & Friske, P.W.B.	1988	Regional Lake Sediment and Water Geochemical Reconnaissance Data, Gogama Area, Ontario	GSC OFR 1640	
Vincent, J-S. et.al.	1987	The last glacial cycle and ice-retreat from the Upper Ottawa River Valley to southeastern Hudson Bay	International Union for Quaternary Research, Excursion Guide Book C-10	85 p.

* Out of Print

NOTES AND ADDENDA

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data.

On the maps, only the areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown. There is little or no data for many of the oldest properties in the township.

AIR PHOTOS - on File in Toronto

Only 1977 photos are available for viewing at the Public Service Centre, Room 1640, Whitney Block.

Photos can also be ordered from here for the years 1946, 1958 and 1970.

Year	Roll	Strip	Photo
1946	51	116	83-87
	50	117	68-72
	60	118	117-124
	59	119	144-152
	219	120	3-5
	202	120	1-10
	202	121	93A-104A
	202	122	16-26
	206	123	51-61
1958	018	4717	195-197
	019	4716	96-100
	019	4715	163-168
	012B	4714	17-23
	012B	4713	35-43
	050	4712	89-97
	050	4711	107-116
	050	4710	129-138
1970	41	4717	90-92
	41	4716	127-130
	17	4715	87-91
	6	4714	62-67
	3	4713	126-132
	3	4712	236-244
	4	4711	79-89
	4	4710	140-149

NOTES AND ADDENDA

AIR PHOTOS - on File in Toronto (cont'd)

Year	Roll	Strip	Photo
1977	3	4717	162-164
	4	4716	19-22
	4	4715	62-66
	40	4714	46-52
	4	4713	180-186
	5	4712	51-60
	5	4711	95-104
	5	4710	172-182

AIR PHOTOS - on File in Cobalt

Year	Roll	Strip	Photo
1946	51	115	91-92
	51	116	85-86
	50	117	70-72
	60	118	119-125
	59	119	145-152
	202	120	1-10
	202	121	94A-103A
	202	122	18-25
	206	123	51-62
	206	123	53-62 (No 60)
1948 (1":400')	1350	6	109-116
	1350	7	143-152
	1350	8	181-191
	1350	9	220-230
	1351	10	30-40
	1351	11	76-87
	1351	12	120-136
	1351	13	170-185
	1351	14	218-236
	1351	15	34-51
	1352	16	88-107
	1352	17	145-166
	1352	18	202-227
	1353	19	26-49
1970	4	4710	139-151
	4	4711	79-88
	3	4712	235-244
	3	4713	126-132

NOTES AND ADDENDA

AIR PHOTOS - on File in Cobalt (cont'd)

Year	Roll	Strip	Photos
1977 (1":440')	40	4714	49
	40	4714	48
	3	4717	164
	3	4717	163
	3	4717	162
	4	4716	19
	4	4716	20
	4	4716	21

GDIF FORM NO.30

MAPS
NOT
FILMED

CARTES
OMISES